IAP10 Rec'd PCT/PTO 02 DEC 2009

FOR PTO-1390 US DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER (REV. 01-2003) 125471 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **DESIGNATED/ELECTED OFFICE (DO/EO/US)** 10/551,802 ~ **CONCERNING A FILING UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/JP04/004512 March 30, 2004 March 31, 2003 TITLE OF INVENTION TUNNEL TRANSISTOR HAVING SPIN-DEPENDENT TRANSFER CHARACTERISTICS AND NON-VOLATILE MEMORY USING THE SAME APPLICANTS FOR DO/EO/US Satoshi SUGAHARA et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 冈 This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include 3.  $\boxtimes$ items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 4. 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a.  $\square$  is attached hereto (required only if not communicated by the International Bureau). b. 

has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). c. The International Application was filed in English. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. 

are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventors (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18. A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20.  $\boxtimes$ Other items or information: Designation of Ten Attorneys for Power of Attorney

	U.S. APPLICATION NO. (if known, see 3 10/551,802	PLICATION NO. (if known, see 37 C.F.R. 1.5) INTERNATIONAL APPLICATION NO PCT/JP04/004512		TION NO.	ATTORNEY'S DOCKET NUMBER 125471	
•	21.   The following fees are		7 01/31 04/004312		CALCULATIONS	PTO USE ONLY
	BASIC NATIONAL FEE (37 CF			\$ 300.00	\$	
	SEARCH FEE (37 CFR 1.492(b)(1)-(3)):				\$	
	International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage					•
	International search fee (37 CFR 1.445(a)(2)) paid to USPTO as ISA \$ 100.00					
	International search report provided to USPTO no later than the time at which the search fee is paid					
	All situations not provided for above					
	EXAMINATION FEE (37 CFR 1.492(c)(1)-(2)):				\$	
	International preliminary examination report or written opinion prepared by the USPTO as IPEA or ISA and favorable as to novelty, inventive step, and industrial applicability for all claims presented in the application entering the national stage					
	Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the				\$130	
	earliest claimed priority date (37					· · · · · · · · · · · · · · · · · · ·
	TOTAL PAGES OF APPLICATION OVER 100 ( - 100)	÷ 50	= †	x 250 =	\$	
	fround up to next integer					
		JMBER FILED	NUMBER EXTRA	RATE	\$	
	TOTAL CLAIMS	- 20	=	x 50.00 =	\$	
	INDEPENDENT CLAIMS	- 3	=	x 200.00 =	\$ \$	·
	*MULTIPLE DEPENDENT CLAIM(S)(if applicable) + 360.00 =  TOTAL OF ABOVE CALCULATIONS =				\$130	
	Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are				\$	
	reduced by ½				· ·	
	SUBTOTAL =				\$130	
	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
	Fee for recording the enclosed	assignment (37 (		NATIONAL FEE =	\$130 \$	
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				Ψ	
10//	 	1802	TOTAL FE	ES ENCLOSED =	\$130	
					Amount to be	
01 F	C:1617	130.00 OP			refunded:	\$
	a.	n the amount of	\$130 00 to cover the a	hove foos is analogad	charged:	\$
	b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.					
	c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 15-0461. A duplicate copy of this sheet is enclosed.					
	d.  Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a/pet/tigh to gevixe 437 CFR 1/137(a) or (b))					
	must be filed and granted to restore the application to pending status.  SEND ALL CORRESPONDENCE TO:					
		OLIFF & BERRIDGE, PLC Customer Number: 25944				
	Customer number:	<b>2</b> 3344		NAME: Marye REGISTRATIO		75
	Date <u>December 2, 2005</u> NAME: Philip			A. Caramanica, Jr.		
					GISTRATION NUMBER: 51,528	